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TCP

Thermal Circuit Breaker

CLIPLINE

Data Sheet
100212_04_en

Description

The thermal circuit breaker can be switched back on again, has a compact design and is available in nine finely graded steps for nominal currents from 0.25 A to 10 A. The integrated ON/OFF switching function makes it possible to switch the circuit breaker back on immediately after triggering thus increasing the availability of the system.

The thermal circuit breaker **TCP** can be plugged into UK 6-FSI/C fuse base terminal blocks with screw connection technology and into ST 4-FSI/C terminals with spring-cage connection technology. For both types of terminal blocks, the potential distribution can be conveniently implemented using bridges.

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☞ Make sure you always use the latest documentation.
It can be downloaded at www.download.phoenixcontact.com.

A conversion table is available on the Internet at
www.download.phoenixcontact.com/general/7000_en_00.pdf.

☞ This data sheet is valid for all products listed on the following page:

PHOENIX CONTACT

INSPIRING INNOVATIONS

Ordering Data

Thermal Circuit Breaker

Description	Type	Order No.	Pcs./Pck.
Thermal miniature circuit breaker, can be plugged onto UK 6-FSI/C... or ST 4-FSI/C... base terminal block			
Nominal current 0.25 A	TCP 0,25A	0712123	20
Nominal current 0.5 A	TCP 0,5A	0712152	20
Nominal current 1 A	TCP 1A	0712194	20
Nominal current 2 A	TCP 2A	0712217	20
Nominal current 3 A	TCP 3A	0712233	20
Nominal current 4 A	TCP 4A	0712259	20
Nominal current 6 A	TCP 6A	0712275	20
Nominal current 8 A	TCP 8A	0712291	20
Nominal current 10 A	TCP 10A	0712314	20

Accessories

Description	Type	Order No.	Pcs./Pck.
Zack strip, 10-section, white	ZBF 5 (ordering data see CLIPLINE catalog)		

Technical Data

Technical Data in Accordance With IEC/DIN VDE

Nominal voltage	250 V AC / 65 V DC
Nominal current	0.25 A ... 10 A
Ambient temperature	-20°C ... +60°C

Interrupting Capacity I_{CN}

For nominal currents of 0.25 A ... 4 A	$6 \times I_N$
For nominal currents of 6 A ... 10 A	$8 \times I_N$

Interrupting Capacity (UL 1077)

|	
AC 250 V	2000 A
DC 65 V	200 A

Service Life

Cycles with $1 \times I_N$ (inductive)	3000
Cycles with $2 \times I_N$ (inductive)	500

General Data

Rated surge voltage	2.5 kV
Contamination class	2
Surge voltage category	III
Insulating material group	I
Insulating material	PA
Inflammability class in accordance with UL 94	V0
Connection data	250 V AC / 65 V DC
Approvals	$_c$**N**$_{us}$ VDE

Time/Current Characteristic Curve

Total interruption period for nominal current,
ambient temperature 23°C
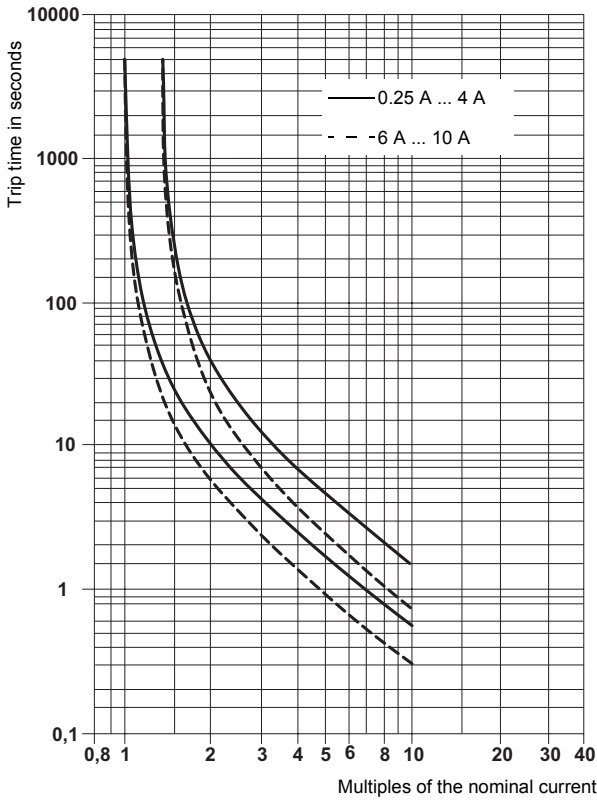
The time/current characteristic curve depends on the ambient temperatures. To avoid a premature or late switch-off, the nominal current of the circuit breaker must be multiplied with a temperature factor.

| Ambient Temperature [°C]	-20	-10	0	23	40	50	60
Temperature Factor	0.76	0.84	0.92	1	1.08	0.16	1.24

When aligned in a row, the nominal current of the devices can either be transmitted at only 80% or must be overdimensioned accordingly.
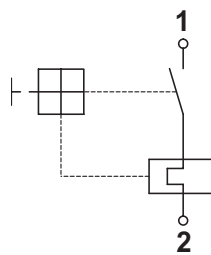
Nominal Currents and Characteristic Internal Resistances

Nominal Current [A]	Internal Resistance [Ω]
0.25	14
0.5	3.4
1	0.9
2	0.25
3	0.11
4	0.07
6	≤ 0.05
8	≤ 0.05
10	≤ 0.05

Dimensional Drawing
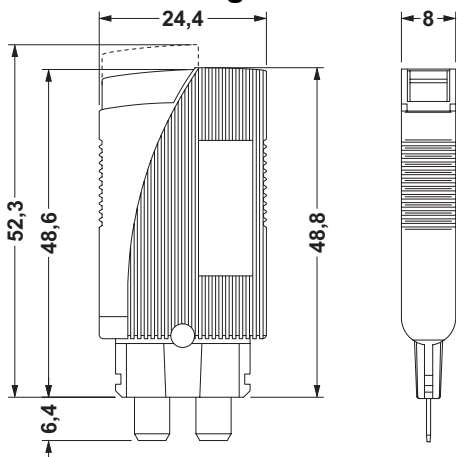
Circuit Diagram

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